contact in a cyclic catalyst recirculation cracking process with a circulating fluidizabl catalytic cracking catalyst inventory consisting of particles having a size ranging from about 20 to about 100 microns, comprising:

- (i) catalytically cracking the <u>heavy hydrocarbon oil</u> feed in a catalytic cracking zone operating at catalytic cracking conditions of elevated temperature by contacting feed with a source of regenerated cracking catalyst to <u>crack the heavy hydrocarbon oil feed to lighter products and produce a cracking zone effluent comprising <u>lighter</u> cracked products and spent catalyst containing coke and strippable hydrocarbons;</u>
- (ii) discharging and separating the effluent mixture into a cracked product rich vapor phase and a solids rich phase comprising spent catalyst;
- (iii) removing the vapor phase as a product and fractionating the vapor to form liquid cracking products including gasoline,
- (iv) stripping the solids rich spent catalyst phase to remove occluded hydrocarbons from the catalyst,
- (v) transporting stripped catalyst from the stripper to a catalyst regenerator;
- (vi) regenerating stripped catalyst by contact with oxygen containing gas to produce regenerated catalyst; and

(vii) recycling the regenerated catalyst to the cracking zone to contact further quantities of heavy hydrocarbon feed,

the improvement which comprises

reducing the sulfur content of a the gasoline portion of the liquid cracking products, by catalytically cracking the feed fraction at elevated temperature in the presence of a product sulfur reduction catalyst which comprises a porous molecular sieve having a metal component which is within the interior pore structure of the molecular sieve and which comprises a metal in an oxidation state greater than zero, to produce liquid cracking products of reduced sulfur content.

## Add the following claims:

28. A method according to claim 1 in which the heavy hydrocarbon oil feed comprises a vacuum gas oil.

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